



## REFERENCES

1. Glenner, G.G. and Wong, C.W. Alzheimer's disease: Initial report of the purification and characterizaion of a novel cerebrovascular amyloid protein. Biochem. Biophys. Res. Commun. **120** (1984) 885-890.
- 5 2. Masters, C.L.; Simms, G.; Weinman, N.A.; Multhaup, G.; McDonalld, B.L.; Beyreuther, K. Amyloid plaque core protein in Alzheimer disease and Down syndrome. Proc. Natl. Acad. Sci. USA. **82** (1985) 4245-4249.
- 10 3. Goldgaber, D.; Lerman, M.I.; McBride, O.W.; Saffiotti, U.; Gajdusek, D.C. Characterization and chromosomal localization of a cDNA encoding brain amyloid of Alzheimer's disease. Science **235** (1987) 877-880.
4. Tanzi, R.E.; Gusella, J.F.; Watkins, P.C.; Bruns, G.A.P.; George-Hyslop, P. H. St.; Van Keuren, M. L.; Patterson, D.; Pagan, S.; Kurnit, D.M.; Neve, R.L. Amyloid  $\beta$  protein gene: cDNA, mRNA distribution, and genetic linkage near the Alzheimer locus. Science **235** (1987) 880-884.
- 15 5. George-Hyslop, P.H.St.; Tanzi, R.E.; Polinsky, R.J.; et al. The genetic defect causing familial Alzheimer's disease map on chromosome 21. Science **235** (1987) 885-890.
- 20 6. Kang, J.; Lemaire, H.G.; Unterbeck, A.; Salbaum, J.M.; Masters, C.L.; Grzeschik, K.H.; Multhaup, G.; Beyreuther, K.; Muller-Hill, B. The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor. Nature **325** (1987) 733-736. (GenBank Accession No. Y00264).
7. Ponte,P.; Gonzalez-DeWhitt, P.; Schilling, J.; Miller, J.; Hsu, D.; Greenberg, B.; Davis, K.; Wallace, W.; Lieberburg, I.; Fuller, F.; Cordell, B. A new A4 amyloid

mRNA contains a domain homologous to serine proteinase inhibitors. Nature **331** (1988) 525-527. (GenBank Accession No. Y00297).

8. Tanzi, R.E.; McClatchey, A.I.; Lamperti, E.D.; Vill-Komaroff, L.; Gusella, J.F.; Neve, R.L. Protease inhibitor domain encoded by an amyloid protein precursor mRNA associated with Alzheimer's disease. Nature **331** (1988) 528-530.
9. Kitaguchi, N.; Takahashi, Y.; Tokushima, Y.; Shiojiri, S.; Ito, H. Novel precursor of Alzheimer's disease amyloid protein shows protease inhibitory activity. Nature **331** (1988) 530-532.
10. Oltersdorf, T.; Fritz, L.C.; Schenk, D.B.; Lieberburg, I.; Johnson-Wood, K.L.; Beattie, E.C.; Ward, P.J.; Blacher, R.W.; Dovey, H.F.; Sinha, S. The secreted form of the Alzheimer's amyloid precursor protein with the Kunitz domain is protease nexin-II. Nature **341** (1989) 144-147.
11. Van Nostrand, W.; Schmaier, A.H.; Farrow, J.S.; Cunningham, D.D. Protease nexin II (amyloid  $\beta$ -protein precursor): a platelet  $\alpha$ -granule protein. Science **248** (1990) 745-748.
12. Smith, R.P.; Higuchi, D.A.; Broze Jr, G.J. Platelet coagulation factor XIa-inhibitor, a form of Alzheimer amyloid precursor protein. Science **248** (1990) 1126-1128.
13. Schubert, D.; Cole, G.; Saitoh, T.; Oltersdorf, T. Amyloid beta protein precursor is a mitogen. Biochem. Biophys. Res. Commun. **162** (1989) 83-88.
14. Schubert, D.; Jin, L.W.; Saitoh, T.; Cole, G. The regulation of amyloid  $\beta$  protein precursor secretion and its modulatory role in cell adhesion. Neuron **3** (1989) 689-694.

15. Yankner, B.A.; Duffy, L.K.; Kirschner, D.A. Neurotrophic and neurotoxic effects of amyloid  $\beta$  protein: reversal by tachykinin neuropeptides. Science **250** (1990) 279-282.
16. Whitson, J.S.; Selkoe, D.J.; Cotman, C.W. Amyloid  $\beta$  protein enhances the survival of hippocampal neurons in vitro. Science **243** (1989) 1488-1490.
17. Yankner, B.A.; Dawes, L.R.; Fisher, S.; Villa-Komaroff, L.; Oster-Granite, M.L.; Neve, R.L. Neurotoxicity of a fragment of amyloid precursor associated with Alzheimer's disease. Science **245** (1989) 417-420.
18. Weidemann A.; Konig, G.; Bunke, D.; Fischer, P.; Salbaum, J.M.; Masters, C.L.; Beyreuther, K. Identification, biogenesis, and localization of precursors of Alzheimer's disease A4 amyloid protein. Cell **57** (1989) 115-126.
19. Oltersdorf, T.; Ward, P.J.; Henriksson, T.; Beattie, E.C.; Neve, R.; Lieberburg, I.; Fritz, C. The Alzheimer amyloid precursor protein. Identification of a stable intermediate in the biosynthetic/degradative pathway. J. Biol. Chem. **265** (1990) 4492-4497.
20. Knops, J.; Johnson-Wood, K.; Schenk, D.B.; Sinha, S.; Lieberburg, I.; McConlogue, L. Isolation of baculovirus-derived secreted and Esch, F.S full-length  $\beta$ -amyloid precursor protein. J. Biol. Chem. **265** (1991) 7285-7290.
21. Esch, F.S.; Keim, P.S.; Beattie, E.C.; Blacher, R.W.; Culwell, A.R.; Oltersdorf, T.; McClure, D.; Ward, P.J. Cleavage of amyloid  $\beta$  peptide during constitutive processing of its precursor. Science **248** (1990) 1122-1124.
22. Suzuki, N.; Cheung, T.T.; Cai, X.D.; Odaka, A.; Otvos Jr, L.; Eckman, C.; Golde, T.E.; Younkin, S.G. An increase percentage of long amyloid  $\beta$  protein secreted

- by familial amyloid  $\beta$  protein precursor ( $\beta$ APP<sub>717</sub>) mutants. Science **264** (1994) 1336-1340.
23. Cai, X.D.; Golde, T. E.; Younkin, S.G. Release of excess amyloid  $\beta$ -protein from a mutant amyloid  $\beta$ -protein precursor. Science **259** (1993) 514-516.
  - 5 24. Hsiao, K.; Chapman, P.; Nilsen, S.; Eckman, C.; Harigaya, Y.; Younkin, S.; Yang, F.; Cole, G. Correlative memory deficits, A $\beta$  elevation, and amyloid plaques in transgenic mice. Science **274** (1996) 99-102.
  25. Sambrook, J.; Fritsch, E.F.; Maniatis, T. Extraction, purification and analysis of messenger RNA from eukaryotic cells. In Molecular Cloning, a Laboratory
  - 10 Manual, 2<sup>nd</sup> Ed. Cold Spring Harbor Laboratory Press: Cold Spring Harbor, New York (1989) 7.28-7.52.
  26. Saiki, R.K.; Scharf, S.; Faloona, F.; Mullis, K.B.; Horn, C.T.; Erlich, H.A.; Arnheim, N. Amplification of  $\beta$ -globine genomic sequences and restriction site analysis for diagnosis of sickle cell anemia. Science **230** (1985) 1350-1354.
  - 15 27. Kawasaki, E.S.; Wang, A.M.: Detection of gene expression. In PCR Technology; Erlich, H.A.,Ed. Stockton: New York (1989) 89-97.